Surface Mount General Purpose Silicon Rectifiers

Reverse Voltage - 1200 V

Forward Current - 1 A

FEATURES

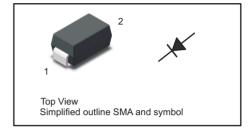
- · For surface mounted applications
- · Low profile package
- · Glass Passivated Chip Junction
- · Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

MECHANICAL DATA

- · Case: SMA
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

PINNING

PIN	DESCRIPTION				
1	Cathode				
2	Anode				



Maximum Ratings and Electrical characteristics

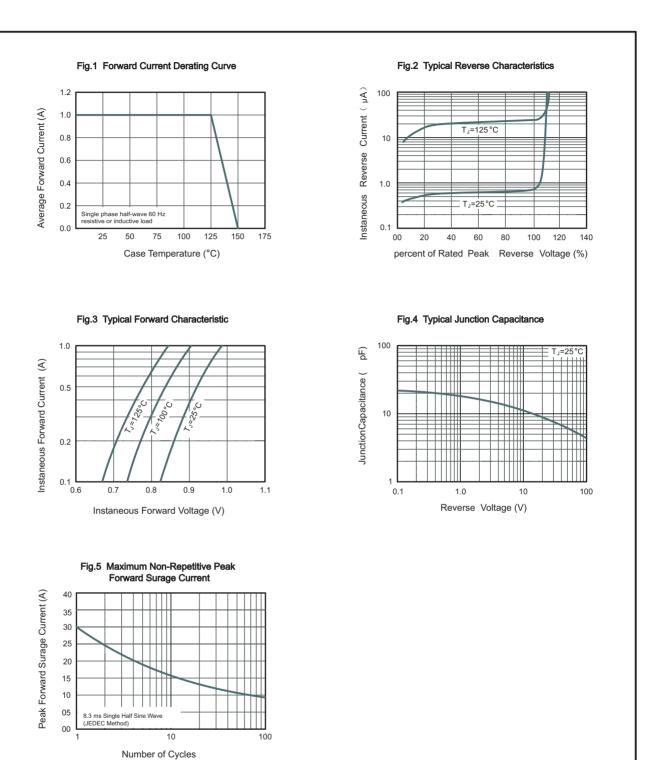
Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

Parameter	Symbols	S1N	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	1200	V
Maximum RMS voltage	V_{RMS}	840	V
Maximum DC Blocking Voltage	V _{DC}	1200	V
Maximum Average Forward Rectified Current	I _{F(AV)}	1	Α
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load	I _{FSM}	30	Α
Maximum Instantaneous Forward Voltage at 1 A	V _F	1.1	V
Maximum DC Reverse Current T _a = 25 °C at Rated DC Blocking Voltage T _a =125 °C	I _R	5 50	μΑ
Typical Junction Capacitance (1)	C _j	15	pF
Typical Thermal Resistance (2)	$R_{\theta JA}$	75	°C/W
Operating and Storage Temperature Range	T_{j},T_{stg}	-55 ~ + 150	°C

⁽¹⁾ Measured at 1 MHz and applied reverse voltage of 4 V D.C

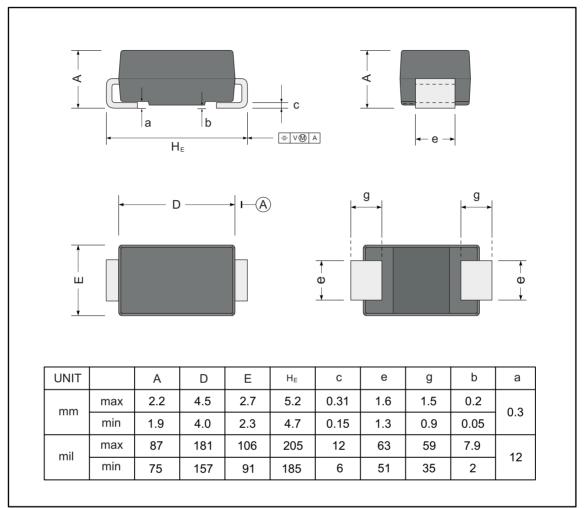
⁽²⁾ P.C.B. mounted with 2.0" X 2.0" (5 X 5 cm) copper pad areas.



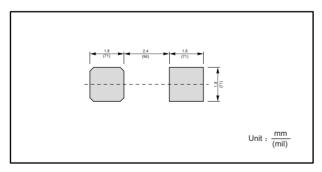
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMA



The recommended mounting pad size



Marking

Type number	Marking code		
S1N	S1N		

文件履历表

序号	制/修订日期	生效日期	版次	修订内容	变更原因	制/修订人	备注
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